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## **Measurements of b hadron lifetimes and effective lifetimes at LHCb**

*Saturday, 20 July 2013 11:00 (15 minutes)*

Precision measurements of b-hadron lifetimes are a key goal of the LHCb experiment. In the  $B_s0$  sector, the measurement of the effective lifetimes for  $B_s0$  mesons decaying to CP-odd, CP-even and flavour specific final states are essential for constraining the  $B_s0$  mixing parameters,  $\Delta\Gamma_s$ , the average width  $\bar{\Gamma}$ s and the CP-violating phase,  $\varphi_s$ . Measurements of b baryon lifetimes are also important to test theoretical models. We present the latest results from LHCb on these topics

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